

AMENDMENTSIn the claims

Pl ase amend Claims 1 and 14, as follows:

✓ Claim 1 (Once Am nded). A system for controlling plant and flower moisture transpiration, said system comprising:

- a) a first component in the form of a solution, said solution applied to the surface of a plant or flower exposed to air, said first component comprising:

i) a polymer having a water vapor transfer rate of less than 10g-mm/m²-day and a glass transition temperature, T_g, greater than about 30° C;

ii) the balance carriers and adjunct ingredients;

wherein said polymer is in the form of a microemulsion having a particle size less than 400 nanometers;

further wherein said glass transition temperature, T_g, is approximated using the following formula:

(iii) opt

$$\frac{1}{T_{Co}} = \frac{W_1}{T_1} + \frac{W_2}{T_2} + \dots + \frac{W_n}{T_n}$$

wherein W₁ represents the weight portion of monomer 1, W₂ represents the weight portion of monomer 2, T₁ the glass transition temperature of the polymerized monomer 1 in °K, T₂ the glass transition temperature of the polymerized monomer 2 in °K, T_{Co}, the glass transition temperature of the copolymer in °K and;

- ✓ b) a second component comprising:

i) a source of energy for the plant or flower being treated;

ii) an antimicrobial;

wherein said second component is dissolved in water to form a solution and into which solution is placed the plant or flower to be preserved.

✓ (iii) optionally a Ca²⁺ ion sequestrant

Claim 14 (Once Amended). A system for controlling plant and flower moisture transpiration, said system comprising:

- a) a first component in the form of a solution, said solution applied to the surface of a plant or flower exposed to air, said first component comprising:

i) from about 0.01% to about 20% by weight, of a polymer such that the water vapor transfer rate and glass transition temperature, T_g, of said polymer define a point to the left of a line having the equation:

$$y = -0.068443x + 10$$

wherein the ordinate, x, is the glass transition temperature and the abscissa, y, is the water vapor transfer rate of said polymer;

ii) the balance carriers and adjunct ingredients;

microemulsion
particle size
200-250nm

23-25

wherein said glass transition temperature is approximated using the following formula:

$$\frac{1}{T_{Co}} = \frac{W_1}{T_1} + \frac{W_2}{T_2} + \dots + \frac{W_n}{T_n}$$

wherein W_1 represents the weight portion of monomer 1, W_2 represents the weight portion of monomer 2, T_1 the glass transition temperature of the polymerized monomer 1 in °K, T_2 the glass transition temperature of the polymerized monomer 2 in °K, T_{Co} , the glass transition temperature of the copolymer in °K; and

✓ b)

a second component comprising:

- i) a source of energy for the plant or flower being treated;
- ii) an antimicrobial;

wherein said second component is dissolved in water to form a solution and into which solution is placed the plant or flower to be preserved.
